



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 131977

TO: James Schultz  
Location: rem/2d18/2c18  
Art Unit: 1635  
Friday, September 17, 2004  
Case Serial Number: 10/019595

From: Paul Schulwitz  
Location: Biotech-Chem Library  
REM-1A65  
Phone: (571)272-2527

[paul.schulwitz@uspto.gov](mailto:paul.schulwitz@uspto.gov)

### Search Notes

Examiner Schultz,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz  
Technical Information Specialist  
STIC Biotech/Chem Library  
(571)272-2527

This Page Blank (uspto)

STIC-Biotech/ChemLib

131977

mg

From: Schultz, James  
Sent: Wednesday, September 08, 2004 1:49 PM  
To: STIC-Biotech/ChemLib  
Subject: Seq Search 10/019,595

Hello,  
Could you please run a length limited nucleotide sequence search on SEQ ID NO: 1 in the above entitled case which returns hits 30 nucleotides long and under?  
Thanks,  
Doug Schultz

James Douglas Schultz, PhD  
AU 1635 (Biotechnology)  
Patent Examiner  
United States Patent and Trademark Office  
(Office) REM 2D18  
(Mail) REM 2C18  
(571) 272-0763

STIC  
SEP - 8 2004  
RECEIVED

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: 9/17  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence :# \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model  
Run on: September 15, 2004, 14:56:58 ; Search time 19497 Seconds  
(without alignments)  
11639.951 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgagcgcggcgcccttgagc.....gtaccggatcctcgaattc 5236

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 1237800

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:  
1: gb\_ba:  
2: gb\_htg:  
3: gb\_in:  
4: gb\_om:  
5: gb\_ov:  
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7: gb\_ph:  
8: gb\_pl:  
9: gb\_pr:  
10: gb\_ro:  
11: gb\_sts:  
12: gb\_sy:  
13: gb\_un:  
14: gb\_vi:  
15: em\_ba:  
16: em\_fun:  
17: em\_hum:  
18: em\_mu:  
19: em\_om:  
20: em\_or:  
21: em\_ov:  
22: em\_pat:  
23: em\_ph:  
24: em\_pl:  
25: em\_ro:  
26: em\_sts:  
27: em\_un:  
28: em\_vi:  
29: em\_htg\_hum:  
30: em\_htg\_inv:  
31: em\_htg\_other:  
32: em\_htg\_mus:  
33: em\_htg\_pln:  
34: em\_htg\_rod:  
35: em\_htg\_mam:  
36: em\_htg\_vrt:  
37: em\_sy:  
38: em\_sy:  
39: em\_htgo\_hum:  
40: em\_htgo\_mus:  
41: em\_htgo\_other:

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	24.4	0.5	29	6	AR166605	AR166605 Sequence
3	24.4	0.5	29	6	BD238387	BD238387 Sorting o
4	24.4	0.5	29	6	AR279813	AR279813 Sequence
5	24.4	0.5	29	6	AR288232	AR288232 Sequence
6	24.4	0.5	29	6	AX048408	AX048408 Sequence
7	24.4	0.5	29	6	AX048409	AX048409 Sequence
8	24.4	0.5	29	6	AX052994	AX052994 Sequence
9	24.4	0.5	29	6	AX353685	AX353685 Sequence
10	24.4	0.5	29	6	AX662302	AX662302 Sequence
11	24.4	0.5	29	6	BD204968	BD204968 Protein a
12	24.2	0.5	30	6	AR051244	AR051244 Sequence
13	24.2	0.5	30	6	AR127791	AR127791 Sequence
14	24.2	0.5	30	6	I28373	I28373 Sequence 12
15	24	0.5	24	6	AR009472	AR009472 Sequence
16	24	0.5	24	6	E12007	E12007 Linker. 9/1
17	23.8	0.5	28	6	BD234335	BD234335 Improved
18	23.8	0.5	29	6	AX430216	AX430216 Sequence
19	23.8	0.5	29	6	BD165919	BD165919 Method fo
20	23.4	0.4	26	6	I79496	I79496 Sequence 3
21	23.4	0.4	26	6	BD192375	BD192375 Reagents
22	23.4	0.4	29	6	AX052989	AX052989 Sequence
23	23	0.4	25	6	BD234336	BD234336 Improved
24	22.8	0.4	26	6	AR174581	AR174581 Sequence
25	22.8	0.4	26	6	BD248974	BD248974 Novel cyt
26	22.8	0.4	26	6	I79494	I79494 Sequence 1
27	22.8	0.4	26	6	AR263648	AR263648 Sequence
28	22.8	0.4	26	6	AR374073	AR374073 Sequence
29	22.8	0.4	26	6	AX106717	AX106717 Sequence
30	22.8	0.4	30	6	AX079108	AX079108 Sequence
31	22.6	0.4	26	6	BD237566	BD237566 Genes and
32	22.6	0.4	26	6	AR257336	AR257336 Sequence
33	22.6	0.4	26	6	AR263647	AR263647 Sequence
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35	22.6	0.4	26	6	BD062456	BD062456 A human 2
36	22.6	0.4	27	6	AX327980	AX327980 Sequence
37	22.6	0.4	27	6	AX513052	AX513052 Sequence
38	22.6	0.4	27	6	AX711956	AX711956 Sequence
39	22.6	0.4	29	6	AR268128	AR268128 Sequence
40	22.4	0.4	24	6	AR010037	AR010037 Sequence
41	22.4	0.4	24	6	AR034772	AR034772 Sequence
42	22.4	0.4	24	6	AR068465	AR068465 Sequence
43	22.4	0.4	24	6	AR105984	AR105984 Sequence
44	22.4	0.4	24	6	AR107972	AR107972 Sequence
45	22.4	0.4	24	6	BD234330	BD234330 Improved

ALIGNMENTS

RESULT 1  
AR162080  
LOCUS AR162080 29 bp DNA linear PAT 17-OCT-2001  
DEFINITION Sequence 8 from patent US 6258558.  
ACCESSION AR162080  
VERSION AR162080.1 GI:16229144  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 29)  
AUTHORS Szostak,J.W., Roberts,R.W. and Liu,R.  
TITLE Method for selection of proteins using RNA-protein fusions  
JOURNAL Patent: US 6258558-A 8 10-JUL-2001;  
FEATURES Location/Qualifiers

Pred. No. is the number of results predicted by chance to have a

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Best Local Similarity 96.2%;   Pred. No. 2.2e+06;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
Db 4 AAAAAAAAAA 29

RESULT 4
AR279813
LOCUS AR279813 29 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 8 from patent US 6518018.
ACCESSION AR279813
VERSION AR279813.1 GI:29714958
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 29)
AUTHORS Szostak,J.W. and Roberts,R.W.
TITLE RNA-antibody fusions and their selection
JOURNAL Patent: US 6518018-A 8 11-FEB-2003;
FEATURES
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                /mol_type="genomic DNA"

ORIGIN

Query Match      0.5%;   Score 24.4;   DB 6;   Length 29;
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Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
Db 4 AAAAAAAAAA 29

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AR288232
LOCUS AR288232 29 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 3 from patent US 6537749.
ACCESSION AR288232
VERSION AR288232.1 GI:31675516
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 29)
AUTHORS Kuimelis,R.G. and Wagner,R.
TITLE Addressable protein arrays
JOURNAL Patent: US 6537749-A 3 25-MAR-2003;
FEATURES
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ORIGIN

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QY 5188 AACAAAAA 5213
Db 4 AAAAAAAAAA 29

RESULT 6
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LOCUS AX048408 29 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 8 from patent US 6518018.
ACCESSION AX048408
VERSION AX048408.1 GI:29714958
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 29)
AUTHORS Szostak,J.W. and Roberts,R.W.
TITLE RNA-antibody fusions and their selection
JOURNAL Patent: US 6518018-A 8 11-FEB-2003;
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                /mol_type="genomic DNA"

ORIGIN

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REFERENCE
AUTHORS      Boekenkamp,D., Hoppe,H.U., Burgstaller,P., Konz,D., Woelk,U. and
              Pignot,M.
TITLE        Detection system for analyzing molecular interactions, production
              and utilization thereof
JOURNAL       Patent: WO 0071749-A 10 30-NOV-2000;
              Aventis Research & Technology GmbH & Co. KG. (DE)
FEATURES     Location/Qualifiers
source       1..29
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             /note="Beschreibung der kunstlichen
Sequenz:Puromycin-Linker"

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Query Match          0.5%; Score 24.4; DB 6; Length 29;
Best Local Similarity 96.2%; Pred. No. 2.2e+06;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db    4 AAAAAAAAAAAAAAAAAAAACC 29

RESULT 9
AX353685
LOCUS       AX353685                29 bp            DNA            linear            PAT 06-FEB-2002
DEFINITION Sequence 5 from Patent WO0204656.
ACCESSION  AX353685
VERSION    AX353685.1 GI:18618749
KEYWORDS   synthetic construct
SOURCE     synthetic construct
           artificial sequences.

REFERENCE   1
AUTHORS     Wagner,P. and Polakowski,T.
TITLE       Bio-probes and use thereof
JOURNAL     Patent: WO 0204656-A 5 17-JAN-2002;
           Xzillion GmbH & CO.KG (DE)
FEATURES   Location/Qualifiers
source     1..29
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ORIGIN
Query Match          0.5%; Score 24.4; DB 6; Length 29;
Best Local Similarity 96.2%; Pred. No. 2.2e+06;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY    5188 AACAAAAAAGAAAAAAAAAAACC 5213
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Db    4 AAAAAAAAAAAAAAAAAAAACC 29

RESULT 10
AX662302
LOCUS       AX662302                29 bp            DNA            linear            PAT 22-MAR-2003
DEFINITION Sequence 41 from Patent WO02059293.
ACCESSION  AX662302
VERSION    AX662302.1 GI:29163186
KEYWORDS   synthetic construct
SOURCE     synthetic construct
           artificial sequences.

REFERENCE   1
AUTHORS     Forster,A.C. and Blacklow,S.C.
TITLE       Process and compositions for peptide, protein and peptidomimetic
           synthesis
JOURNAL     Patent: WO 02059293-A 41 01-AUG-2002;
           Forster, Anthony C. (US) ; Blacklow, Stephen C. (US)

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<p>TITLE Convergent synthesis of branched and multiply connected macromolecular structures Patent: US 5830658-A 12 03-NOV-1998; FEATURES Location/Qualifiers 1. .30 /organism="unknown" /mol_type="unassigned DNA"</p>		<p>Query Match 0.5%; Score 24.2; DB 6; Length 30; Best Local Similarity 89.7%; Pred. No. 2.4e+06; Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;</p>
<p>ORIGIN</p>		
QY	5183 CTCTCAACAAAAA 5211	
Db	1 CACACAAAAA 29	
<p>RESULT 13 AR127791 LOCUS AR127791 30 bp DNA linear PAT 16-MAY-2001 DEFINITION Sequence 12 from patent US 6180777. ACCESSION AR127791 VERSION AR127791.1 GI:141114386 KEYWORDS SOURCE Unknown. ORGANISM Unknown. REFERENCE 1 (bases 1 to 30) AUTHORS Horn, T. TITLE Synthesis of branched nucleic acids JOURNAL Patent: US 6180777-A 12 30-JAN-2001; FEATURES Location/Qualifiers 1. .30 /organism="unknown" /mol_type="unassigned DNA"</p>		
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Db	1 CACACAAAAA 29	
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<p>ORIGIN</p>		
QY	5183 CTCTCAACAAAAA 5211	
Db	1 CACACAAAAA 29	



CACACAAAAA

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RESULT 15
AR009472/c
LOCUS AR009472 24 bp DNA linear PAT 04-DEC-1998
DEFINITION Sequence 22 from patent US 5756295.
ACCESSION AR009472
VERSION AR009472.1 GI:3968277
KEYWORDS
SOURCE
ORGANISM
UNclassified.
REFERENCE
1 (bases 1 to 24)
AUTHORS Onda, H. and Hosoya, M.
TITLE DNA primer and a method for screening DNAs
JOURNAL Patent: US 5756295-A 22 26-MAY-1998;
FEATURES
location/Qualifiers
1..24
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

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QY 5212 CCATGGTACCGGATCCTCGAATT 5235
Db 24 CCATGGTACCGGATCCTCGAATT 1

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Search completed: September 15, 2004, 22:19:07  
Job time : 19500 secs

**This Page Blank (uspio)**

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Run on: September 15, 2004, 13:12:42 ; Search time 1798 Seconds  
(without alignments)  
12371.282 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgagcgcgcccttgagc.....gtaccggatcctcgaaattc 5236

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 2723956

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: Geneseqn2001as:\*  
5: Geneseqn2001bs:\*  
6: Geneseqn2002s:\*  
7: Geneseqn2003as:\*  
8: Geneseqn2003bs:\*  
9: Geneseqn2003cs:\*  
10: Geneseqn2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	24.2	0.5	30	2	Aaq83940 Oligonuc
7	24.2	0.5	30	5	Aaf60462 Oligonuc
8	24	0.5	24	2	AAQ50581 Asparagin
9	23.8	0.5	28	3	AAA40358 pBluescri
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11	23.4	0.4	25	2	Aax84258 PCR prime
12	23.4	0.4	26	2	Aax07466 Human BS1
13	23.4	0.4	26	2	Aax78723 Human pan
14	23.4	0.4	27	2	Aav71936 Anchored
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23	22.8	0.4	26	6	Abs52638 Human sec

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C	26	22.8	0.4	26	7	ABX93599 Human zsi
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C	28	22.8	0.4	30	4	AAF26221 APC bindi
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C	30	22.6	0.4	26	6	ABS52637 Human sec
C	31	22.6	0.4	26	6	AAD45054 ZC7231 pr
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C	34	22.6	0.4	26	9	ACF36382 Nucleotid
C	35	22.6	0.4	27	6	ABQ76254 Murine SC
C	36	22.6	0.4	27	7	ABX12469 Cxsackie
C	37	22.6	0.4	29	2	AAQ68614 tRNApOLYU
C	38	22.6	0.4	29	2	AAT09934 Reverse t
C	39	22.4	0.4	24	2	AAT01340 Tomato ac
C	40	22.4	0.4	24	2	AAT99286 POLYA, a
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ALIGNMENTS

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AAA94315

ID AAA94315 standard; DNA; 29 BP.

XX AAA94315;

XX 11-JAN-2001 (first entry)

XX RNA-protein fusion oligonucleotide 30-P.

XX RNA-protein fusion; protein library; protein isolation; gene cloning; ss.

XX Synthetic.

XX Key Location/Qualifiers

FT modified\_base 29

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "attached to puromycin, a peptide acceptor"

XX WO200047775-A1.

XX 17-AUG-2000.

XX 01-FEB-2000; 2000WO-US002589.

XX 09-FEB-1999; 99US-00247190.

XX (GEO ) GEN HOSPITAL CORP.

XX Szostak JW, Roberts RW, Liu R;

XX WPI; 2000-533022/48.

XX Producing protein or DNA libraries which are useful for improving existing proteins, by in vitro translating protein coding sequences to produce RNA-protein fusions and incubating these protein fusions under high salt conditions.

XX Disclosure; Page 43; 121pp; English.

XX The present sequence is one of a number of oligonucleotides which were used for the generation of RNA-protein fusions, including fusions having a myc epitope tag. The RNA-protein fusions comprise a protein covalently linked to the 3' end of its own mRNA. This is accomplished by synthesis and in vitro or in situ translation of an mRNA molecule with a peptide

CC acceptor attached to its 3' end. The RNA-protein fusions are incubated  
CC under high salt conditions to produce a protein library. This method is  
CC useful for improving or altering existing proteins, as well as for  
CC isolating new proteins and nucleic acid or small molecule targets. It may  
CC also be used to improve human or humanised single-chain antibodies for  
CC the treatment of a number of diseases. The method is useful for the  
CC isolation of proteins with specific binding properties, for screening  
CC cDNA libraries and cloning new genes on the basis of protein-protein  
CC interactions. Unlike prior art, the new method does not rely on  
CC maintaining the integrity of an mRNA:ribosome:nascent chain ternary  
CC complex, which is very fragile and is therefore of limited use. The  
CC method does not rely on topological links between the protein and the  
CC nucleic acid so that the information of the protein is retained and can  
CC be recovered in readable, nucleic acid form

XX  
SQ Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 24.4; DB 3; Length 29;  
Best Local Similarity 96.2%; Pred. No. 8.6e+04;  
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACCAAAAAAAAAAAAAAAAAAAAAACC 5213  
Db 4 AAAAAAAAAAAAAAAAAAAAAACC 29

RESULT 2  
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ID AAS00066 standard; DNA; 29 BP.  
XX  
AC AAS00066;  
XX  
DT 12-SEP-2001 (first entry)  
DE Synthetic branched encoding molecule sequence.  
XX  
KW Addressing element; microarray; protein display;  
KW branched encoding molecule; ss.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 9..10  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "AXA, where X is a branching monomer, linked to  
FT nucleotide 16 of sequence in AAS00065 via a (Hexaethylene  
FT oxide)n linkage"  
FT modified\_base 30  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "Other= Covalently linked to puromycin"

XX WO200116352-A1.  
XX  
XX 08-MAR-2001.  
XX  
XX 25-AUG-2000; 2000WO-US023414.  
XX  
XX 27-AUG-1999; 99US-0151261P.  
XX  
XX (PHYL-) PHYLUS INC.  
XX  
XX Kuimelis RG;  
XX  
XX WPI; 2001-183261/18.  
XX

XX Encoding and sorting in vitro translated proteins, useful for the  
XX identification of desired binding partners, comprises attaching a nucleic  
XX acid linker to the protein and binding an encoding molecule to the  
XX linker.  
XX  
XX Example 3; Fig 9B; 48pp; English  
PS

XX The sequence represents part of a branched encoding molecule used in  
CC methods to hybridise a capture probe to the addressing element of a DNA  
CC linker attached to an in vitro translated protein, in order to immobilise  
CC the protein to a solid support. The new methods are useful for tagging or  
CC encoding in vitro translated proteins with unique and minimal encoding  
CC molecules and sorting these molecules onto solid supports. They are also  
CC useful for the identification of a desired binding partner. The method  
CC allows the use of pre-made sets of universal encoding molecules, such as  
CC nucleic acid(s) (analogues). These can be used in conjunction with  
CC corresponding universal microarrays or sets of microparticles to create  
CC new protein display systems which are flexible, modular, scalable and  
CC cost effective. The method allows the use of nucleic acid analogue which  
CC are not susceptible to enzymatic incorporation or polymerisation and are  
CC superior to conventional DNA/RNA. The proteins can also be labelled with  
CC fluorescent groups which can be used to monitor the protein in real time.  
CC The absence of RNA is advantageous as they can adopt secondary structures  
CC which are difficult to predict and can interfere with hybridisation steps  
CC and protein folding/function

XX  
SQ Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 24.4; DB 4; Length 29;  
Best Local Similarity 96.2%; Pred. No. 8.6e+04;  
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACCAAAAAAAAAAAAAAAAAAAAAACC 5213  
Db 4 AAAAAAAAAAAAAAAAAAAAAACC 29

RESULT 3  
AAH20990  
ID AAH20990 standard; DNA; 29 BP.  
XX  
AC AAH20990;  
XX  
DT 31-AUG-2001 (first entry)  
DE C-myc epitope puromycin linker primer #1.  
XX  
KW C-myc; epitope; detection; amplification; biomedical diagnosis;  
KW environmental monitoring; primer; ss.  
XX  
OS Unidentified.  
XX  
PN WO200142494-A2.  
XX  
PD 14-JUN-2001.  
XX  
PF 20-OCT-2000; 2000WO-EP010336.  
XX  
PR 10-DEC-1999; 99DE-01059857.  
XX  
PA (AVET ) AVENTIS RES & TECHNOLOGIES GMBH & CO KG.  
XX  
PI Burgstaller P, Konz D;  
XX  
DR WPI; 2001-381706/40.  
XX

XX System for detecting immobilized analyte, useful e.g. for biomedical  
XX diagnosis, has as detection agent specific polypeptide coupled to nucleic  
XX acid for signal amplification.  
XX  
XX Example; Page 6; 12pp; German.  
XX  
XX This invention describes a novel test system (A) which comprises at least  
XX one immobilized analyte (I) on an insoluble carrier and a polypeptide  
XX detection agent (II), specific for (I) and conjugated, via a linker, to  
XX an amplifier (III). (A) is used for direct, in vitro detection of (I)  
XX with amplification of the signal by polymerase chain reaction (PCR), or a  
XX related technique, applied to (III). The method is useful in biomedical  
XX diagnosis and environmental monitoring and can be used in a number of  
XX fields.

```
CC range of (I), e.g. diagnostic or pharmaceutical agents, secondary
CC metabolites, herbicides or pesticides. (A) allow simultaneous, parallel
CC detection of many different analytes (high throughput capacity),
CC relatively simply. (only a few incubation and washing steps are required)
CC and with high sensitivity and selectivity. This sequence represents
CC primer used in the amplification of the c-myc DNA fragment which encodes
CC an epitope used to illustrate the method of the invention
XX
SQ Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

Query Match      0.5%; Score 24.4; DB 4; Length 29;
Best Local Similarity 96.2%; Pred. No. 8.6e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29

RESULT 4
AAK98637
ID AAK98637 standard; DNA; 29 BP.
XX
AC AAK98637;
XX
DT 19-APR-2002 (first entry)
XX
DE S cerevisiae alpha factor receptor STE2 vector linker.
XX
KW Biological material detection; electrophoresis; bioprobe isolation;
KW alpha factor receptor; STE2; linker; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 29 /*tag= a
FT /*mod_base= OTHER
FT /*note= "modified by puromycin"
XX
PN WO200204656-A2.
XX
PD 17-JAN-2002.
XX
PF 26-JUN-2001; 2001WO-EP007259.
XX
PR 07-JUL-2000; 2000DE-01033194.
XX
PA (XZIL-) XZILLION GMEH & CO KG.
XX
PI Wagner P, Polakowski T;
XX
DR WPI; 2002-154934/20.
XX
PT Detecting and purifying biological material by (di)electrophoresis,
PT useful e.g. for separating tissues and viruses, comprises using a probe
PT that alters (di)electrophoretic properties.
XX
PS Example 1; Page 12; 20pp; German.
XX
CC The present invention relates to a method for the detection or
CC purification of biological material by electrophoresis, which comprises
CC (i) treating the biological material containing different species with a
CC bioprobe and (ii) establishing an electric field for detection or
CC purification of at least one complex formed between the biological
CC material being tested and a specifically bound bioprobe. The method is
CC used for detection and purification of tissue, cells, cell organelles,
CC viruses, proteins, nucleic acids, lipids and/or other organic compounds.
CC It can also be used for the isolation of specific bioprobes from a
CC library of bioprobes. The present sequence is a linker described in the
CC exemplification of the invention
XX
SQ Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

range of (I), e.g. diagnostic or pharmaceutical agents, secondary
metabolites, herbicides or pesticides. (A) allow simultaneous, parallel
detection of many different analytes (high throughput capacity),
relatively simply. (only a few incubation and washing steps are required)
and with high sensitivity and selectivity. This sequence represents
primer used in the amplification of the c-myc DNA fragment which encodes
an epitope used to illustrate the method of the invention

Query Match      0.5%; Score 24.4; DB 4; Length 29;
Best Local Similarity 96.2%; Pred. No. 8.6e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29

RESULT 5
AAV48087
ID AAV48087 standard; DNA; 30 BP.
XX
AC AAV48087;
XX
DT 27-OCT-1998 (first entry)
XX
DE Oligonucleotide 30-P.
XX
KW In situ translation; RNA-protein fusion; binding reagent; antibody;
KW industrial catalyst; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 30 /*tag= a
FT /*note= "Puromycin"
XX
PN WO9831700-A1.
XX
PD 23-JUL-1998.
XX
PF 14-JAN-1998; 98WO-US000807.
XX
PR 21-JAN-1997; 97US-0035963P.
PR 06-NOV-1997; 97US-0064491P.
XX
PA (GEHO ) GEN HOSPITAL CORP.
XX
PI Szostak JW, Roberts RW, Liu R;
XX
DR WPI; 1998-414032/35.
XX
PT Selection of specific protein by screening protein-RNA fusions generated
PT in vitro or in situ - useful for, e.g. identifying enzymes and antibodies
PT with altered properties, potentially useful as catalysts or for therapy
PT or diagnosis.
XX
PS Disclosure; Page 39; 94pp; English.
XX
CC The Oligonucleotides AAV48087, AAV48089-V48091 and AAV48096-V48098 and
CC variations were used to generate RNA-protein fusions. These were used in
CC the selection of a specific protein or RNA, by in vitro or in situ
CC translation of candidate RNA molecules to produce RNA-protein fusions,
CC then selecting specific RNA protein fusions. The method is used to select
CC proteins (or DNA encoding them) having altered properties, e.g. for
CC identification of new binding reagents, to identify improved human
CC antibodies or new enzymes. These proteins are potentially useful in
CC diagnosis and therapy, or as industrial catalysts. The methods allow many
CC rounds of selection and amplification to be performed, resulting in
CC enrichment of even very rare molecules and allowing isolation of proteins
CC that bind specifically to almost any compound or catalyse almost any
CC reaction
XX
SQ Sequence 30 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 1 Other;

Query Match      0.5%; Score 24.4; DB 2; Length 30;
Best Local Similarity 96.2%; Pred. No. 8.8e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
```



XX 07-AUG-1992; 92JP-00231602.  
PF 07-FEB-1992; 92JP-00056023.  
XX (TAKI ) TAKARA SHUZO CO LTD.  
PA WPI; 1993-373587/47.  
DR  
XX  
XX New gene for encoding asparaginyl endo-peptidase - comprises 8 specified  
PT DNA sequences.  
XX  
XX Disclosure; Page 29; 35pp; Japanese.  
XX  
CC A gene encoding asparaginylendopeptidase is claimed. 8 DNA sequences are  
CC given (AAQ50559-66). The enzyme is a protease derived from a seed of  
CC Canavalia ensiformis which selectively hydrolyses C-terminus amide bond  
CC of L-asparagine residue (see AAR43033 and AAR43041). The enzyme is useful  
CC for protein fragmentation and enzymatic peptide synthesis. The primers  
CC given in AAQ50567-68, AAQ50576-77 and AAQ50583-90 were used in the  
CC isolation of the fragments given in AAQ50569-75 and AAQ50578-79, by PCR.  
CC (Updated on 25-MAR-2003 to correct PA field.)  
XX  
XX Sequence 24 BP; 6 A; 5 C; 8 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.5%; Score 24; DB 2; Length. 24;  
Best Local Similarity 100.0%; Pred. No. 9.8e+04;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 5212 CCATGGTACCGGATCCTCGAATT 5235  
Db 24 CCATGGTACCGGATCCTCGAATT 1  
RESULT 9  
ID AAA40358 standard; DNA; 28 BP.  
XX  
AC AAA40358;  
XX  
DT 10-NOV-2000 (first entry)  
XX  
DE pBluescriptSK+ phagemid primer SEQ ID NO: 8.  
XX  
KW Primer; cloning; ligation; ss.  
XX  
OS Synthetic.  
XX  
PN WO200036088-A1.  
XX  
PD 22-JUN-2000.  
XX  
PF 17-DEC-1999; 99WO-US030277.  
XX  
PR 17-DEC-1998; 98US-00213834.  
XX  
PA (ROMA/) ROMANTCHIKOV Y.  
XX  
PI Romantchikov Y;  
XX  
DR WPI; 2000-442381/38.  
XX  
PT Inserting a nucleic acid into a circular vector comprising joining their  
PT ends, melting, and reannealing ends at two different concentrations,  
PT useful for cloning small amounts of nucleic acids and forming genomic  
PT libraries.  
XX  
PS Example 3; Page 67; 71pp; English.  
XX  
CC This invention describes a novel method (M1) for inserting a nucleic acid  
CC (N1) into a circular vector (V1) comprising joining ends of N1 and V1  
CC under a first nucleic acid concentration, melting hybridized cohesive  
CC circularization ends, and reannealing the ends at a second concentration.

CC The methods are useful for the cloning small amounts of nucleic acids and  
CC forming genomic libraries of complex populations of DNA or cDNA. The  
CC methods allow the cloning of minute amounts of nucleic acids efficiently  
CC and avoids the size selection problems of prior art systems. Larger  
CC nucleic acid fragments are just as easily cloned, allowing highly  
CC representative libraries to be made. Vector to vector ligation is avoided  
CC using the methods. AAA40351-A40366 represents primers used to illustrate  
CC the method of the invention  
XX  
SQ Sequence 28 BP; 1 A; 1 C; 1 G; 25 T; 0 U; 0 Other;  
Query Match 0.5%; Score 23.8; DB 3; Length 28;  
Best Local Similarity 92.6%; Pred. No. 1.2e+05;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 5188 AACAAAAA AAAAAAAAAAAAAAAAAAACC A 5214  
Db 28 AAAAAAAAAAAAAAAAAA AAAAAAAAAA AACTA 2  
RESULT 10  
ABN83378  
ID ABN83378 standard; DNA; 29 BP.  
XX  
AC ABN83378;  
XX  
DT 15-AUG-2002 (first entry)  
XX  
DE Mononucleotide repeat locus BAT25 probe #1.  
XX  
XX Mononucleotide repeat locus; human; BAT25; probe; microsatellite; tumour;  
KW ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 29  
FT /\*tag= a  
FT /moc\_base= OTHER  
FT /note= "Labelled with Fluorescein"  
XX  
PN EPI207210-A1.  
XX  
PD 22-MAY-2002.  
XX  
PF 13-NOV-2001; 2001EP-00126930.  
XX  
PR 15-NOV-2000; 2000EP-00124897.  
XX  
PA (HOFF ) ROCHE DIAGNOSTICS GMBH.  
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.  
XX  
PI Dietmaier W;  
XX  
DR WPI; 2002-437469/47.  
XX  
PT Analyzing repeat sequences in DNA using a probe which hybridizes to  
PT adjacent repetitive and non-repetitive regions and determining hybrid  
PT melting point is useful to detect microsatellite instability such as in  
PT hereditary cancer.  
XX  
PS Claim 16; Page 7; 19pp; English.  
XX  
CC The present invention relates to a method for analysing a target nucleic  
CC acid consisting of repetitive and non-repetitive sequences. The method  
CC comprises hybridising a polynucleotide probe comprising a segment  
CC complementary to a non-repetitive region and a segment complementary to  
CC an adjacent repetitive region, where the second segment consists of a  
CC defined number of repeats, and determining the melting point temperature  
CC of the hybrid. The method is used to analyse microsatellites, especially  
CC microsatellite instability, particularly as a means for detecting  
CC hereditary tumours. Alternatively, the method is used to identify an  
CC individual in a population. The present sequence is a probe for

CC Mononucleotide repeat locus BAT25, and was used to illustrate the  
CC invention  
XX

SQ Sequence 29 BP; 26 A; 2 C; 0 G; 1 T; 0 U; 0 Other;

XX Human BS124 specific EST clone oligonucleotide.  
DE  
XX  
XX BS124; breast; cancer; detection; diagnosis; prevention; treatment; EST;  
KW  
KW ss.



PI Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;  
PI Granados EN, Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L;  
PI Russell JC, Stroupe SD;  
XX WPI; 1999-405041/34.  
XX PA153 cDNA transcribed from pancreatic tissue.  
PT Example 2; Page 121; 123pp; English.  
PS This invention describes novel contiguous and partially overlapping cDNA  
CC sequences and their encoded polypeptides, designated PA153, transcribed  
CC from human pancreatic tissue and which have cytostatic activity. The  
CC PA153 polynucleotides, proteins and antibodies are all useful in methods  
CC of detection. Detection of PA153 polynucleotide, antigens or anti-PA153  
CC antibodies in a sample is indicative of pancreatic disease. PA153  
CC antibodies (antagonists) can also be used in vivo for therapeutic use,  
CC e.g. treatment of pancreatic disease, tumours or metastases. Antisense  
CC PA153 polynucleotides can be used in gene therapy of pancreatic diseases.  
CC AAX78712-X78725 represent primers used in the method of the invention  
XX  
SQ Sequence 26 BP; 0 A; 0 C; 1 G; 25 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 23.4; DB 2; Length 26;  
Best Local Similarity 96.0%; Pred. No. 1.4e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 5187 CAACAAAAAAAAAAAAAAAAAAAAAAA 5211  
Db 26 CAAAAA  
|||  
RESULT 14  
AAV71936/c  
ID AAV71936 standard; DNA; 27 BP.  
XX AAV71936;  
XX 18-FEB-1999 (first entry)  
DE Anchored poly T RT-PCR primer.  
XX  
KW Normalised; cDNA library; mRNA cloning; reverse transcription;  
KW immobilise; screening; hybridisation; nucleic acid amplification;  
KW expression pattern; drug development; PCR primer; RT-PCR; ss.  
XX  
OS Synthetic.  
XX  
PN WO9851789-A2.  
XX  
PD 19-NOV-1998.  
XX  
PF 13-MAY-1998; 98WO-DK000186.  
XX  
PR 13-MAY-1997; 97DK-00000547.  
PR 19-MAY-1997; 97US-00871030.  
PR 27-MAR-1998; 98DK-00000432.  
XX  
PA (DISP-) DISPLAY SYSTEMS BIOTECH APS.  
XX  
PI Warthoe PR;  
XX  
DR WPI; 1999-009772/01.  
XX  
PT Preparation of normalised, subdivided cDNA libraries from mRNA - by  
PT reverse transcription and amplification, used to screen for new genes and  
PT interacting proteins, potential drugs, and for diagnosis.  
XX  
PS Example 1; Page 29; 71pp; English.  
XX  
CC The invention relates to preparation of a normalised, subdivided library  
CC of amplified cDNA from the coding regions of mRNA in a sample. The method  
CC involves reverse transcription, with at least one cDNA primer of formula

CC 5'-Con1-dTn2-Vn3-Nn4 to form first stand cDNA where Con1 = any sequence  
CC of 1-100 nucleotides; dT = deoxythymidinyl; n2 is at least 1; n3 and n4  
CC are both 0, or n3 is 1 and n4 is at least 1; followed by second strand  
CC cDNA synthesis using the first strand as template and a second cDNA  
CC primer of a similar formula, in the presence of DNA polymerase I (or its  
CC Klenow fragment) and amplification of double-stranded cDNA with a set of  
CC amplification primers. Comparison of cDNA in the prepared library with a  
CC database (a computer-generated list of molecular weights of restricted  
CC DNA fragments of known sequence) is used to determine presence of an  
CC expressed protein in a cell, also to detect changes in such expression  
CC (particularly for diagnosis of disease). Surfaces (chip) having amplified  
CC cDNA stably immobilised on it, obtained by a similar method, are used to  
CC screen for genes of a particular family, by hybridisation with nucleic  
CC acid from the family (to identify new genes) and to detect differences in  
CC expression patterns between cells. The polypeptides expressed by the  
CC libraries can be used for drug development. Sequences AAV71935 to  
CC AAV71946 represent primers used to exemplify the method of the invention  
XX  
SQ Sequence 27 BP; 0 A; 1 C; 1 G; 25 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 23.4; DB 2; Length 27;  
Best Local Similarity 96.0%; Pred. No. 1.4e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 5187 CAACAAAAAAAAAAAAAAAAAAAAAAA 5211  
Db 26 CAAAAA  
|||  
RESULT 15  
AAF74918  
ID AAF74918 standard; DNA; 29 BP.  
XX AAF74918;  
AC AAF74918;  
XX 23-MAY-2001 (first entry)  
DT  
XX CD40L poly-A tract sequence SEQ ID NO:15.  
DE  
XX Human; CD40L; promoter; CD40 ligand promoter; rheumatoid arthritis;  
KW diagnosis; antiarthritic; antirheumatic; immunosuppressive;  
KW antiinflammatory; inflammatory disease; autoimmune disease; ds.  
XX  
OS Homo sapiens.  
XX WO200119844-A1.  
PN  
PD 22-MAR-2001.  
XX  
PF 13-SEP-2000; 2000WO-US024966.  
XX  
PR 13-SEP-1999; 99US-0153625P.  
XX  
PA (NYRB-) NEW YORK SOC RELIEF RUPTURED & CRIPPLED.  
XX  
PI Crow MK, Li Y;  
XX WPI; 2001-244776/25.  
XX  
PT New altered CD40L promoter for use in the study, diagnosis and treatment  
PT of a variety of inflammatory disorders and autoimmune diseases, such as  
PT rheumatoid arthritis.  
XX  
PS Example 1; Fig 3; 90pp; English.  
XX  
CC The present invention describes an isolated, purified nucleic acid, which  
CC is an altered CD40 ligand (CD40L) promoter (I) for CD40 ligand, having  
CC residues 331-455 of the sequence comprising 455 nucleotides given in  
CC AAF74905 where A in the wild type sequence at position 331 (corresponding  
CC to position -125) is replaced with C. (I) has antiarthritic,  
CC antirheumatic, immunosuppressive and antiinflammatory activities, and can  
CC be used in gene therapy. (I) is useful in the study, diagnosis and  
CC treatment of inflammatory and autoimmune diseases, as well as diseases in

CC which elevated expression of CD40L is a factor, e.g., rheumatoid  
 CC arthritis. The present sequence represents a CD40L poly-A tract sequence  
 CC which is used in an example from the present invention  
 XX  
 SQ Sequence 29 BP; 23 A; 3 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 23.2; DB 4; Length 29;  
 Best Local Similarity 89.3%; Pred. No. 1.6e+05;  
 Matches 25; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5188 AACAAAAA  
 |||||  
 Db 1 AAAAAA

Search completed: September 15, 2004, 16:54:03  
 Job time : 1802 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 15, 2004, 16:11:08 ; Search time 323 Seconds  
(without alignments)  
8996.046 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgagcgcgccgttgagc.....gtaccggatcctcgaattc 5236

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 628400

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq:  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq:  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	24.4	0.5	29	3	US-09-244-794A-8
2	24.4	0.5	29	3	US-09-007-005-8
3	24.4	0.5	29	3	US-09-247-190-8
4	24.4	0.5	29	3	US-09-244-796-8
5	24.4	0.5	29	4	US-09-238-710-8
6	24.4	0.5	29	4	US-09-282-734-3
7	24.2	0.5	30	1	US-08-455-627-12
8	24.2	0.5	30	2	US-08-689-856-12
9	24.2	0.5	30	3	US-08-787-321-12
10	24	0.5	24	1	US-08-566-037A-22
11	23.8	0.5	29	4	US-10-003-998A-7
12	23.4	0.4	26	1	US-08-621-914A-3
13	23.4	0.4	30	4	US-09-648-040-4
14	22.8	0.4	26	1	US-08-621-914A-1
15	22.8	0.4	26	4	US-09-522-217-38
16	22.8	0.4	26	4	US-09-527-345-7
17	22.8	0.4	26	4	US-09-923-246-38
18	22.8	0.4	26	4	US-10-295-723-38
19	22.6	0.4	26	4	US-09-527-345-6
20	22.6	0.4	26	4	US-09-167-513-10
21	22.6	0.4	26	4	US-09-161-939A-43
22	22.6	0.4	29	4	US-08-227-476-5
23	22.4	0.4	24	1	US-08-014-943A-25
24	22.4	0.4	24	1	US-08-486-421-50
25	22.4	0.4	24	1	US-08-470-911-50
26	22.4	0.4	24	2	US-08-735-381-1
27	22.4	0.4	24	2	US-08-486-809-50

28	22.4	0.4	24	3	US-09-183-619-7	Sequence 7, Appli
29	22.4	0.4	24	3	US-09-201-674-1	Sequence 1, Appli
30	22.4	0.4	24	4	US-09-536-936-11	Sequence 11, Appl
31	22.4	0.4	24	4	US-09-025-639-4	Sequence 4, Appli
32	22.4	0.4	24	4	US-09-333-237-4	Sequence 4, Appli
33	22.4	0.4	24	4	US-09-732-067-1	Sequence 1, Appli
34	22.4	0.4	24	4	US-10-043-415-4	Sequence 4, Appli
35	22.4	0.4	24	4	US-09-854-317-1	Sequence 1, Appli
36	22.4	0.4	24	4	US-09-721-154-1	Sequence 1, Appli
37	22.4	0.4	25	1	US-08-341-148-2	Sequence 2, Appli
38	22.4	0.4	25	1	US-08-460-130-2	Sequence 2, Appli
39	22.4	0.4	25	3	US-08-969-813-1	Sequence 1, Appli
40	22.4	0.4	25	3	US-09-183-619-5	Sequence 5, Appli
41	22.4	0.4	25	4	US-09-282-734-23	Sequence 23, Appl
42	22.4	0.4	25	5	PCT-US94-14096-2	Sequence 2, Appli
43	22.4	0.4	26	1	US-08-621-914A-2	Sequence 2, Appli
44	22.4	0.4	26	3	US-08-873-437-2	Sequence 2, Appli
45	22.4	0.4	26	3	US-09-197-951-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1  
US-09-244-794A-8  
; Sequence 8, Application US/09244794A  
; Patent No. 6214553  
; GENERAL INFORMATION:  
; APPLICANT: Szostak, Jack W.  
; APPLICANT: Liu, Rihe  
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN  
; TITLE OF INVENTION: FUSIONS  
; FILE REFERENCE: 00786/350006  
; CURRENT APPLICATION NUMBER: US/09/244,794A  
; CURRENT FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/035,963  
; PRIOR FILING DATE: 1997-01-27  
; PRIOR APPLICATION NUMBER: 60/064,491  
; PRIOR FILING DATE: 1997-11-06  
; PRIOR APPLICATION NUMBER: 09/007,005  
; PRIOR FILING DATE: 1998-01-14  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 29  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Translation template  
US-09-244-794A-8  
Query Match 0.5%; Score 24.4; DB 3; Length 29;  
Best Local Similarity 96.2%; Pred. No. 6e+03;  
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 5188 AACAAAAA...AAAAAACC 5213  
Db 4 AAAAAA...AAAAAACC 29  
RESULT 2  
US-09-007-005-8  
; Sequence 8, Application US/09007005B  
; Patent No. 6258558  
; GENERAL INFORMATION:  
; APPLICANT: Szostak, Jack W.  
; APPLICANT: Liu, Rihe  
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN  
; TITLE OF INVENTION: FUSIONS  
; FILE REFERENCE: 00786/350003  
; CURRENT APPLICATION NUMBER: US/09/007,005B

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; CURRENT FILING DATE: 1998-01-14
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-007-005-8
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Query Match          0.5%; Score 24.4; DB 3; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29
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RESULT 3
US-09-247-190-8
; Sequence 8, Application US/09247190
; Patent No. 6261804
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350005
; CURRENT APPLICATION NUMBER: US/09/247,190
; CURRENT FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-21
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-247-190-8
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Query Match          0.5%; Score 24.4; DB 3; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29
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RESULT 4
US-09-244-796-8
; Sequence 8, Application US/09244796
; Patent No. 6281344
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350007
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; CURRENT APPLICATION NUMBER: US/09/244,796
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-244-796-8
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Query Match          0.5%; Score 24.4; DB 3; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29
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RESULT 5
US-09-238-710-8
; Sequence 8, Application US/09238710A
; Patent No. 6518018
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350004
; CURRENT APPLICATION NUMBER: US/09/238,710A
; CURRENT FILING DATE: 1999-01-28
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-238-710-8
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```
Query Match          0.5%; Score 24.4; DB 4; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 5188 AACAAAAA 5213
Db 4 AAAAAA 29
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RESULT 6
US-09-282-734-3
; Sequence 3, Application US/09282734A
; Patent No. 6537749
; GENERAL INFORMATION:
; APPLICANT: Robert G. Kuimelis et al.
; TITLE OF INVENTION: ADDRESSABLE PROTEIN ARRAYS
; FILE REFERENCE: 50036/009002
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; CURRENT APPLICATION NUMBER: US/09/282,734A
; CURRENT FILING DATE: 1999-03-03
; EARLIER APPLICATION NUMBER: 60/080,686
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide used for attaching puromycin
US-09-282-734-3

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Query Match 0.5%; Score 24.4; DB 4; Length 29;  
Best Local Similarity 96.2%; Pred. No. 6e+03;  
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

[illegible]

RESULT 7  
US-08-455-627-12  
; Sequence 12, Application US/08455627  
; Patent No. 5571677  
; GENERAL INFORMATION:  
; APPLICANT: Sergei M. Gryaznov  
; TITLE OF INVENTION: Convergent Synthesis of Branched and Multiply  
; TITLE OF INVENTION: Connected Macromolecular Structures  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooley Godward LLP  
; STREET: Five Palo Alto Square, 3000 El Camino Real  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94306-2155  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/455,627  
; FILING DATE: 31-MAY-1995

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CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
;
; NAME: Nakamura, Jackie N.
;
; REGISTRATION NUMBER: 35,966
;
; REFERENCE/DOCKET NUMBER: LYNX-003/01 US
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: 415-843-5000
;
; TELEFAX: 415-857-0663
;
; INFORMATION FOR SEQ ID NO: 12:
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 30 nucleotides
;
; TYPE: nucleic acid
;
; STRANDEDNESS: single
;
; TOPOLOGY: linear
;
; MOLECULE TYPE: DNA
;
; US-08-455-627-12

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Query Match      0.5%; Score 24.2; DB 1; Length 30;
Best Local Similarity 89.7%; Pred. No. 6.8e+03;
Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Qy	5183	CTCTCAACACAAAAA	AAAAA	5211
D6	1	CACACAAAAA	AAAAA	29

RESULT 8  
 US-08-689-856-12  
 ; Sequence 12, Application US/08689856  
 ; Patent No. 5830658  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sergei M. Gryaznov  
 ; TITLE OF INVENTION: Convergent Synthesis of Branched and Multiply  
 ; TITLE OF INVENTION: Connected Macromolecular Structures  
 ; NUMBER OF SEQUENCES: 26  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Cooley Godward LLP  
 ; STREET: Five Palo Alto Square, 3000 El Camino Real  
 ; CITY: Palo Alto  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94306-2155  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/689,856  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/455,627  
 ; FILING DATE: 31-MAY-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Nakamura, Jackie N.  
 ; REGISTRATION NUMBER: 35,966  
 ; REFERENCE/DOCKET NUMBER: LYNX-003/01 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415-843-5000  
 ; TELEFAX: 415-857-0663  
 ; INFORMATION FOR SEQ ID NO: 12:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 30 nucleotides  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA  
 US-08-689-856-12

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Query Match      0.5%; Score 24.2; DB 2; Length 30;
Best Local Similarity 89.7%;
Pred. No. 6.8e+03;
Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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D5 1 CACACAAAAA 29

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RESULT 9
US-08-787-321-12
; Sequence 12, Application US/08787321A
; Patent No. 6180777
; GENERAL INFORMATION:
; APPLICANT: Horn, Thomas
; TITLE OF INVENTION: SYNTHESIS OF BRANCHED NUCLEIC ACIDS
; FILE REFERENCE: (1300)-1199.002
; CURRENT APPLICATION NUMBER: US/08/787,321A
; CURRENT FILING DATE: 1997-01-03
; EARLIER APPLICATION NUMBER: US PROV 60/009,918
; EARLIER FILING DATE: 1996-01-12
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:

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RESULT 13
US-09-648-040-4
; Sequence 4, Application US/09648040
; Patent No. 6436665
; GENERAL INFORMATION:
; APPLICANT: Robert G. Kuimelis
; TITLE OF INVENTION: METHODS FOR CODING AND SORTING IN VITRO
; TITLE OF INVENTION: TRANSLATED PROTEINS
; FILE REFERENCE: 50036/032002
; CURRENT APPLICATION NUMBER: US/09/648,040
; CURRENT FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: US 60/151,261
; PRIOR FILING DATE: 1999-08-27
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Encoding molecule
; NAME/KEY: misc_feature
; LOCATION: 10
; OTHER INFORMATION: n at position 10 can be a, t, c, or g.
US-09-648-040-4
Query Match 0.4%; Score 23.4; DB 4; Length 30;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5188 AACAAAAA...AAAAAACC 5213
Db 5 AAAAAA...AAAAAACC 30

RESULT 14
US-08-621-914A-1/c
; Sequence 1, Application US/08621914A
; Patent No. 5707807
; GENERAL INFORMATION:
; APPLICANT: KATO, KIKUYA
; TITLE OF INVENTION: MOLECULAR INDEXING FOR EXPRESSED GENE
; TITLE OF INVENTION: ANALYSIS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 AVENUE OF THE AMERICAS
; CITY: NEW YORK
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,914A
; FILING DATE: 26-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: LAWRENCE III, STANTON T.
; REGISTRATION NUMBER: 25,736
; REFERENCE/DOCKET NUMBER: 7005-107-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
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; TOPOLOGY: unknown
; MOLECULE TYPE: other nucleic acid
US-08-621-914A-1
Query Match 0.4%; Score 22.8; DB 1; Length 26;
Best Local Similarity 92.3%; Pred. No. 1.4e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5186 TCAACAAAAA...AAAAA 5211
Db 26 TAAAAA...AAAAA 1

RESULT 15
US-09-522-217-38/c
; Sequence 38, Application US/09522217
; Patent No. 6307024
; GENERAL INFORMATION:
; APPLICANT: No. 6307024ak, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Holly, Richard D.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHALL LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/09/522,217
; CURRENT FILING DATE: 2000-03-09
; EARLIER APPLICATION NUMBER: US 60/123,547
; EARLIER FILING DATE: 1999-03-09
; EARLIER APPLICATION NUMBER: US 60/123,904
; EARLIER FILING DATE: 1999-03-11
; EARLIER APPLICATION NUMBER: US 60/142,013
; EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-09-522-217-38
Query Match 0.4%; Score 22.8; DB 4; Length 26;
Best Local Similarity 92.3%; Pred. No. 1.4e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5186 TCAACAAAAA...AAAAA 5211
Db 26 TAAAAA...AAAAA 1

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Copyright (c) 1993 - 2004 Compugen Ltd.  
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(without alignments)  
12040.701 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgagcgcggcgcccttgagc.....gtaccggatcctcgaattc 5236

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:  
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3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:  
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10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:  
13: /cgn2\_6/ptodata/2/pubpna/US09\_PUB.seq:  
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19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	24.4	0.5	29	10	US-09-876-235-8
3	24.4	0.5	29	15	US-10-348-627-3
4	24.4	0.5	29	17	US-10-057-783A-41
5	23.4	0.4	26	9	US-09-099-823-14
6	23.4	0.4	30	15	US-10-217-914-4
7	22.8	0.4	26	9	US-09-922-480-7
8	22.8	0.4	26	9	US-09-923-236-7
9	22.8	0.4	26	9	US-09-923-246-38
10	22.8	0.4	26	9	US-09-922-469-7
11	22.8	0.4	26	15	US-10-295-723-38
12	22.8	0.4	26	17	US-10-659-684-38
13	22.6	0.4	26	9	US-09-922-480-6
14	22.6	0.4	26	9	US-09-923-236-6

C 15	22.6	0.4	26	9	US-09-922-469-6	Sequence 6, Appli
C 16	22.6	0.4	26	15	US-10-039-876A-10	Sequence 10, Appl
C 17	22.6	0.4	26	15	US-10-196-703-43	Sequence 43, Appl
C 18	22.6	0.4	26	15	US-10-352-253A-36	Sequence 36, Appl
C 19	22.6	0.4	26	16	US-10-224-289-20	Sequence 20, Appl
C 20	22.6	0.4	27	13	US-10-071-214-42	Sequence 42, Appl
C 21	22.4	0.4	24	9	US-09-920-342-12	Sequence 12, Appl
C 22	22.4	0.4	24	9	US-09-920-313-148	Sequence 148, App
C 23	22.4	0.4	24	10	US-09-949-305B-6	Sequence 6, Appli
C 24	22.4	0.4	24	10	US-09-888-326-841	Sequence 841, App
C 25	22.4	0.4	24	10	US-09-776-479-433	Sequence 433, App
C 26	22.4	0.4	24	10	US-09-776-479-961	Sequence 961, App
C 27	22.4	0.4	24	10	US-09-776-479-962	Sequence 962, App
C 28	22.4	0.4	24	13	US-10-058-270A-140	Sequence 140, App
C 29	22.4	0.4	24	13	US-10-314-578-433	Sequence 433, App
C 30	22.4	0.4	24	13	US-10-314-578-961	Sequence 961, App
C 31	22.4	0.4	24	13	US-10-314-578-962	Sequence 962, App
C 32	22.4	0.4	24	13	US-09-776-479-433	Sequence 433, App
C 33	22.4	0.4	24	13	US-09-776-479-961	Sequence 961, App
C 34	22.4	0.4	24	13	US-09-776-479-962	Sequence 962, App
C 35	22.4	0.4	24	13	US-10-671-628-10	Sequence 10, Appl
C 36	22.4	0.4	24	14	US-10-043-415-4	Sequence 4, Appli
C 37	22.4	0.4	24	15	US-10-112-653-415	Sequence 415, App
C 38	22.4	0.4	24	15	US-10-112-653-919	Sequence 919, App
C 39	22.4	0.4	24	15	US-10-112-653-920	Sequence 920, App
C 40	22.4	0.4	24	15	US-10-017-995-433	Sequence 433, App
C 41	22.4	0.4	24	15	US-10-017-995-961	Sequence 961, App
C 42	22.4	0.4	24	15	US-10-017-995-962	Sequence 962, App
C 43	22.4	0.4	24	15	US-10-058-513-39	Sequence 39, Appl
C 44	22.4	0.4	24	15	US-10-272-502A-2	Sequence 2, Appli
C 45	22.4	0.4	24	15	US-10-224-523-53	Sequence 53, Appl

ALIGNMENTS

RESULT 1  
US-09-282-734-3  
; Sequence 3, Application US/09282734A  
; Publication No. US20020182597A1  
; GENERAL INFORMATION:  
; APPLICANT: Robert G. Kuimelis et al.  
; TITLE OF INVENTION: ADDRESSABLE PROTEIN ARRAYS  
; FILE REFERENCE: 50036/009002  
; CURRENT APPLICATION NUMBER: US/09/282,734A  
; CURRENT FILING DATE: 1999-03-03  
; EARLIER APPLICATION NUMBER: 60/080,686  
; EARLIER FILING DATE: 1998-04-03  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 29  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide used for attaching puromycin  
US-09-282-734-3

Query Match 0.5%; Score 24.4; DB 9; Length 29;  
Best Local Similarity 96.2%; Pred. No. 2.7e+04;  
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 5188 AACAAAAA...AAAAAACC 5213  
Db 4 AAAAAA...AAAAAACC 29

RESULT 2  
US-09-876-235-8  
; Sequence 8, Application US/09876235  
; Publication No. US2003002236A1  
; GENERAL INFORMATION:  
; APPLICANT: Szostak, Jack W.

```
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350005
; CURRENT APPLICATION NUMBER: US/09/876,235
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/247,190
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/035,963
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-01-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/064,491
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-11-06
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/007,005
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-876-235-8
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Query Match          0.5%; Score 24.4; DB 10; Length 29;
Best Local Similarity 96.2%; Pred. No. 2.7e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA...AAAAAACC 5213
Db 4 AAAAAA...AAAAAACC 29
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RESULT 3
US-10-348-627-3
; Sequence 3, Application US/10348627
; Publication No. US20030143616A1
; GENERAL INFORMATION:
; APPLICANT: Robert G. Kuimelis et al.
; TITLE OF INVENTION: ADDRESSABLE PROTEIN ARRAYS
; FILE REFERENCE: 50036/009002
; CURRENT APPLICATION NUMBER: US/10/348,627
; PRIOR FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: US/09/282,734A
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/080,686
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide used for attaching puromycin
US-10-348-627-3
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Query Match          0.5%; Score 24.4; DB 15; Length 29;
Best Local Similarity 96.2%; Pred. No. 2.7e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 5188 AACAAAAA...AAAAAACC 5213
Db 4 AAAAAA...AAAAAACC 29
```

```
RESULT 4
US-10-057-783A-41
; Sequence 41, Application US/10057783A
; Publication No. US20040091955A1
; GENERAL INFORMATION:
; APPLICANT: Forster, Anthony C.
```

```
; TITLE OF INVENTION: Process and compositions for peptide, protein and
; TITLE OF INVENTION: peptidomimetic synthesis
; FILE REFERENCE: 1
; CURRENT APPLICATION NUMBER: US/10/057,783A
; CURRENT FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: FROM SYNTHETIC
; OTHER INFORMATION: DNA
US-10-057-783A-41
```

```
Query Match          0.5%; Score 24.4; DB 17; Length 29;
Best Local Similarity 96.2%; Pred. No. 2.7e+04;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 5188 AACAAAAA...AAAAAACC 5213
Db 4 AAAAAA...AAAAAACC 29
```

```
RESULT 5
US-09-099-823-14/c
; Sequence 14, Application US/09099823
; Patent No. US20020018990A1
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: SCHEFFEL, CHRISTI
; APPLICANT: STROUPE, STEPHEN D.
; APPLICANT: YU, HONG
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE BREAST
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/099,823
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/879,354
; APPLICATION NUMBER: 08/879,354
; FILING DATE: 20-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6120.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
```

```
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-09-922-480-7

Query Match          0.4%; Score 22.8; DB 9; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5186 TCAACAAAAA 5211
Db 26 TAAAAA 1

RESULT 8
US-09-923-236-7/c
; Sequence 7, Application US/09923236
; Patent No. US20020090677A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Adler, David A.
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE
; FILE REFERENCE: 97-71
; CURRENT APPLICATION NUMBER: US/09/923,236
; CURRENT FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/124,820
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-09-923-236-7

Query Match          0.4%; Score 22.8; DB 9; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5186 TCAACAAAAA 5211
Db 26 TAAAAA 1

RESULT 9
US-09-923-246-38/c
; Sequence 38, Application US/09923246
; Patent No. US20020128446A1
; GENERAL INFORMATION:
; APPLICANT: No. US20020128446Alak, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Holly, Richard D.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHALL LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/09/923,246
; CURRENT FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 2000-03-09
; PRIOR FILING DATE: EARLIER FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-03-11
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 26
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```
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-923-823-14

Query Match          0.4%; Score 23.4; DB 9; Length 26;
Best Local Similarity 96.0%; Pred. No. 4.7e+04;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5187 CAACAAAAA 5211
Db 26 CAAAAA 2

RESULT 6
US-10-217-914-4
; Sequence 4, Application US/10217914
; Publication No. US20030013160A1
; GENERAL INFORMATION:
; APPLICANT: Robert G. Kuimelis
; TITLE OF INVENTION: METHODS FOR CODING AND SORTING IN VITRO
; TITLE OF INVENTION: TRANSLATED PROTEINS
; FILE REFERENCE: 50036/032002
; CURRENT APPLICATION NUMBER: US/10/217,914
; CURRENT FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: 09/648,040
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Encoding molecule
; NAME/KEY: misc_feature
; LOCATION: 10
; OTHER INFORMATION: n at position 10 can be a, t, c, or g.
US-10-217-914-4

Query Match          0.4%; Score 23.4; DB 15; Length 30;
Best Local Similarity 92.3%; Pred. No. 5.3e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5188 AACAAAAA 5213
Db 5 AAAAAA 30

RESULT 7
US-09-922-480-7/c
; Sequence 7, Application US/09922480
; Patent No. US20020081701A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Adler, David A.
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE
; FILE REFERENCE: 97-71
; CURRENT APPLICATION NUMBER: US/09/922,480
; CURRENT FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/124,820
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
```



; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
; FILE REFERENCE: 97-71  
; CURRENT APPLICATION NUMBER: US/09/922,480  
; CURRENT FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: US 60/124,820  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 6  
; LENGTH: 26  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide primer ZC7231  
US-09-922-480-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 5187 CAACAAAAA 5211  
Db 26 BAAAAA 2

RESULT 14

US-09-923-236-6/c  
; Sequence 6, Application US/09923236  
; Patent No. US2002090677A1  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Adler, David A.  
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
; FILE REFERENCE: 97-71  
; CURRENT APPLICATION NUMBER: US/09/923,236  
; CURRENT FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: US 60/124,820  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 6  
; LENGTH: 26  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide primer ZC7231  
US-09-923-236-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 5187 CAACAAAAA 5211  
Db 26 BAAAAA 2

RESULT 15

US-09-922-469-6/c  
; Sequence 6, Application US/09922469  
; Patent No. US20020173027A1  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Adler, David A.  
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
; FILE REFERENCE: 97-71  
; CURRENT APPLICATION NUMBER: US/09/922,469  
; CURRENT FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: US 60/124,820  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 6

; LENGTH: 26  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide primer ZC7231  
US-09-922-469-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 5187 CAACAAAAA 5211  
Db 26 BAAAAA 2

Search completed: September 16, 2004, 02:22:36  
Job time : 2189 secs

**This Page Blank (uspio)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic : nucleic search, using sw model

Run on: September 15, 2004, 16:08:59 ; Search time 12080 Seconds  
(without alignments)  
12943.574 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgagcgcgcccttgagc.....gtaccggatcctcgaattc 5236

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 38748

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:  
1: em\_estba:\*  
2: em\_esthum:\*  
3: em\_estin:\*  
4: em\_estmu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_htc:\*  
9: gb\_est1:\*  
10: gb\_est2:\*  
11: gb\_htc:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: em\_gss\_hum:\*  
18: em\_gss\_inv:\*  
19: em\_gss\_pln:\*  
20: em\_gss\_vrt:\*  
21: em\_gss\_fun:\*  
22: em\_gss\_mam:\*  
23: em\_gss\_mus:\*  
24: em\_gss\_pro:\*  
25: em\_gss\_rod:\*  
26: em\_gss\_phg:\*  
27: em\_gss\_vrl:\*  
28: gb\_gss1:\*  
29: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				
Result No.	Score	Query Match	Length DB ID	Description
C 1	24.4	0.5	28	AZ481286
	24.4	0.5	29	T67079 Ya52f07.r3
	24.4	0.5	29	AZ819924
C 4	24	0.5	30	AZ458127
			28	AZ458127 1M0261124

C 5	23.8	0.5	28	AZ809971
C 6	23.8	0.5	29	CF328476
C 7	23.4	0.4	25	N33150
C 8	23.4	0.4	26	CF296851
C 9	23.4	0.4	26	AZ485624
C 10	23.4	0.4	27	N52529
C 11	23.4	0.4	28	AL587582
C 12	23.4	0.4	28	CF299294
C 13	23.4	0.4	29	BQ590537
C 14	23	0.4	24	CA853764
C 15	23	0.4	24	CF312319
C 16	23	0.4	25	CG726337
C 17	23	0.4	28	T52836
C 18	23	0.4	30	CF299716
C 19	22.8	0.4	26	HS0003162
C 20	22.8	0.4	28	CF337400
C 21	22.8	0.4	28	R37697
C 22	22.8	0.4	29	AZ492630
C 23	22.6	0.4	30	BG865511
C 24	22.6	0.4	30	AZ962183
C 25	22.4	0.4	24	BG670391
C 26	22.4	0.4	24	BX554611
C 27	22.4	0.4	24	CF276855
C 28	22.4	0.4	24	CF301561
C 29	22.4	0.4	24	CF320862
C 30	22.4	0.4	24	AZ328848
C 31	22.4	0.4	24	AZ363562
C 32	22.4	0.4	24	AZ386491
C 33	22.4	0.4	24	AZ390642
C 34	22.4	0.4	24	AZ404871
C 35	22.4	0.4	24	AZ459280
C 36	22.4	0.4	24	AZ644621
C 37	22.4	0.4	24	AZ786257
C 38	22.4	0.4	24	AZ834990
C 39	22.4	0.4	24	AZ970038
C 40	22.4	0.4	24	AZ984490
C 41	22.4	0.4	24	AZ993423
C 42	22.4	0.4	24	TA169D12P
C 43	22.4	0.4	24	TA27B08Q
C 44	22.4	0.4	24	TA354C06P
C 45	22.4	0.4	24	TA371F11P

ALIGNMENTS

RESULT 1  
AZ481286/c

LOCUS 28 bp DNA linear GSS 04-OCT-2000  
DEFINITION 1M0303L24F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0303L24 F, genomic survey sequence.

ACCESSION AZ481286  
VERSION AZ481286.1 GI:10642351

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 28)  
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177



Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0303 row: 1 column: 24  
 Seq primer: CGTTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 28.

# FEATURES

Location/Qualifiers  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0303L24"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 0.5%; Score 24.4; DB 28; Length 28;  
 Best Local Similarity 96.2%; Pred. No. 1.6e+07;  
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5187 CAACAAAAA...AAAAA...AAC 5212  
 Db 28 CAAAAA...AAAAA...AAC 3

# RESULT 2

T67079  
 LOCUS T67079 29 bp mRNA linear EST 07-MAR-1995  
 DEFINITION ya52f07.r3 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:66565 5' similar to gb:X02492 INTERFERON-INDUCED PROTEIN 6-16 PRECURSOR (HUMAN); mRNA sequence.

ACCESSION T67079.1 GI:676519  
 VERSION EST.  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens

ORGANISM Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 29)  
 AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.

TITLE The WashU-Merck EST Project  
 JOURNAL Unpublished (1995)  
 COMMENT Contact: Wilson RK  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@watson.wustl.edu

High quality sequence starts: 1  
 High quality sequence stops: 1  
 Source: IMAGE Consortium, LLNL  
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
 Trace considered overall poor quality  
 Seq primer: T7  
 High quality sequence stop: 1.

# FEATURES

Location/Qualifiers  
 1..29  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:66565"  
 /sex="male"  
 /dev\_stage="20 week-post conception fetus"  
 /lab\_host="DH10B (ampicillin resistant)"  
 /clone\_lib="Soares fetal liver spleen INFLS"  
 /note="Organ: Liver and Spleen; Vector: p77T3D (Pharmacia) with a modified polylinker; Site 1: Pac I; Site 2: Eco RI; 1st strand cDNA was primed with a Pac I - oligo(dT) primer [5' AACTGGAAGATAATTAAGATCTTTTCTTTTCTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified p77T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

# ORIGIN

Query Match 0.5%; Score 24.4; DB 14; Length 29;  
 Best Local Similarity 92.6%; Pred. No. 1.6e+07;  
 Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5184 TCTCAACAAAAA...AAAAA...AAA 5210  
 Db 3 TCTCAAAAAA...AAAAA...AAA 29

# RESULT 3

AZ819924  
 LOCUS AZ819924 29 bp DNA linear GSS 20-FEB-2001  
 DEFINITION 2M0091A19R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0091A19 R, genomic survey sequence.

ACCESSION AZ819924  
 VERSION AZ819924.1 GI:12989832  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)

# ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 29)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhauser, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0091 row: A column: 19  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 29.  
 Location/Qualifiers  
 1..29



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/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0091A19"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

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Query Match      0.5%; Score 24.4; DB 28; Length 29;
Best Local Similarity 96.2%; Pred. No. 1.6e+07;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 5188 AACAAAAA...AAAAAAC 5213
Db 3 AAAAAA...AAAAAAC 28
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RESULT 4

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AZ458127/c
LOCUS AZ458127 30 bp DNA linear GSS 04-OCT-2000
DEFINITION 1M0261I24R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0261I24 R, genomic survey sequence.
ACCESSION AZ458127
VERSION AZ458127.1 GI:10616252
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 30)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0261 row: I column: 24
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 30.
FEATURES Location/Qualifiers
source 1. .30
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/organism="Mus musculus"
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/db_xref="taxon:10090"
/clone="UUGC2M0261I24"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

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Query Match      0.5%; Score 24; DB 28; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 5188 AACAAAAA...AAAAAAA 5211
Db 25 AACAAAAA...AAAAAAA 2
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RESULT 5

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AZ809971/c
LOCUS AZ809971 28 bp DNA linear GSS 20-FEB-2001
DEFINITION 2M0074C14F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0074C14 F, genomic survey sequence.
ACCESSION AZ809971
VERSION AZ809971.1 GI:12976769
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 28)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0074 row: C column: 14
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 28.
FEATURES Location/Qualifiers
source 1. .28
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/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0074C14"  
/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1); a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 0.5%; Score 23.8; DB 28; Length 28;  
Best Local Similarity 92.6%; Pred. No. 2e+07;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5190 CAAAAA...AAAAAACCATG 5216  
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DB 28 CAAAAA...AAAAAAGCAAG 2

## RESULT 6

CF328476

LOCUS

DEFINITION NACL--03-G12.b1 Rice callus plasmid cDNA library (NACL) Oryza sativa cDNA clone NACL--03-G12, mRNA sequence.

ACCESSION

CF328476

VERSION

CF328476.1

KEYWORDS

EST.

SOURCE

Oryza sativa

Oryza sativa

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzaceae; Oryza.

1 (bases 1 to 29)

Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C., Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H.

Large-scale Sequencing Analysis of Rice ESTs

Unpublished (2003)

Contact: Nahm B.H.

Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, Myongji University

Yongin, Gyeonggi, Korea

Tel: 82 31 330 6193

Fax: 82 31 321 6355

Email: bhnahm@bio.com, bhnahm@bio.myongji.ac.kr.

Location/Qualifiers

1..29

/organism="Oryza sativa"

/mol\_type="mRNA"

/cultivar="Nackdong"

/db\_xref="taxon:4530"

/clone="NACL--03-G12"

/tissue\_type="callus"

/dev\_stage="proliferated callus on 2N6 media for 30 days"

/lab\_host="E.coli DH10B"

/clone\_lib="Rice callus plasmid cDNA library (NACL)"  
/note="Vector: PCR4-TOPO; Site 1: ECORI; mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."

## ORIGIN

Query Match 0.5%; Score 23.8; DB 14; Length 29;  
Best Local Similarity 92.6%; Pred. No. 2e+07;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5188 AACAAAAA...AAAAAACCA 5214  
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DB 1 AAAAAA...AAAAAACAA 27

## RESULT 7

N33150/c

LOCUS

DEFINITION Y06G01.s1 Soares melanocyte 2NbHM: Homo sapiens cDNA clone (IMAGE:270480 3' similar to gb:D29805 N-ACETYLLACTOSAMINE SYNTHASE (HUMAN)); mRNA sequence.

ACCESSION

N33150

VERSION

N33150.1

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 25)

Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfsing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.

The WashU-Merck EST Project

Unpublished (1995)

Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

High quality sequence starts: 1

High quality sequence stops: 1

Source: IMAGE Consortium, LLNL

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

Trace considered overall poor quality

Seq primer: ml3 -40 forward

High quality sequence stop: 1.

Location/Qualifiers

1..25

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="GDB:3880122"

/db\_xref="taxon:9606"

/clone="IMAGE:270480"

/sex="Male"

/tissue\_type="melanocyte"

/lab\_host="DH10B (ampicillin resistant)"

/clone\_lib="Soares melanocyte 2NbHM"

/note="Vector: pT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5, TGTACCAATCTGAAGTGGAGCGCCGAGTTTCTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library constructed by Bento Soares and M. Fatima Bonaldo. RNA from normal foreskin melanocytes (FS374) was kindly provided by Dr. Anthony P. Albino."

## ORIGIN

Query Match 0.4%; Score 23.4; DB 14; Length 25;  
Best Local Similarity 96.0%; Pred. No. 2.4e+07;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA5212  
Db 25 AAAAAAAAAAAAAAAAAA

RESULT 8  
CF296851/c  
LOCUS  
DEFINITION 30DGS--07-G13.b1 Rice leaf plasmid cDNA library I (30DGS) Oryza  
sativa cDNA clone 30DGS--07-G13, mRNA sequence.  
ACCESSION CF296851  
VERSION CF296851.1 GI:33665884  
KEYWORDS EST.  
SOURCE Oryza sativa  
ORGANISM Oryza sativa  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
Ehrhartoideae; Oryzaceae; Oryza.  
1 (bases 1 to 26)  
Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C.,  
Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H.  
Large-scale Sequencing Analysis of Rice ESTs  
Unpublished (2003)  
Contact: Nahm B.H.  
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division  
of Bioscience and Bioinformatics, Myongji University  
Yongin, Kyeonggi, Korea  
Tel: 82 31 330 6193  
Fax: 82 31 321 6355  
Email: bnhnmegbio.com, bnhnmegbio.myongji.ac.kr.

FEATURES  
Location/Qualifiers  
1..26  
/organism="Oryza sativa"  
/mol\_type="mRNA"  
/cultivar="Nackdong"  
/db\_xref="taxon:4530"  
/clone="30DGS--07-G13"  
/tissue\_type="leaf"  
/dev\_stage="30 days after germination"  
/lab\_host="E.coli DH10B"  
/clone\_lib="Rice leaf plasmid cDNA library I (30DGS)"  
/note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped  
with oligoribonucleotides and then used as templates for  
RT-PCR."

ORIGIN  
Query Match 0.4%; Score 23.4; DB 14; Length 26;  
Best Local Similarity 96.0%; Pred. No. 2.4e+07;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAA5212  
Db 25 AAAAAAAAAAAAAAAAAA

RESULT 9  
AZ485624  
LOCUS  
DEFINITION 1M0313H11F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0313H11 F, genomic survey sequence.  
ACCESSION AZ485624  
VERSION AZ485624.1 GI:10651606  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 26)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

TITLE  
JOURNAL  
COMMENT

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0313 row: H column: 11  
Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 26.

FEATURES  
Location/Qualifiers  
1..26  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0313H11"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptor DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN  
Query Match 0.4%; Score 23.4; DB 28; Length 26;  
Best Local Similarity 96.0%; Pred. No. 2.4e+07;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5191 AAAAAAAAAAAAAAAAAAACCAT 5215  
Db 1 AAAAAAAAAAAAAAAAAAATCCAT 25

RESULT 10  
N52529/c  
LOCUS  
DEFINITION N52529  
IMAGE:244702.3' similar to gb:X68242 PUTATIVE HIV-1 INDUCED PROTEIN  
HIN-1 (HUMAN); mRNA sequence.  
ACCESSION N52529  
VERSION N52529.1 GI:1193695  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 27)

RESULT 10  
N52529/c  
LOCUS  
DEFINITION N52529  
IMAGE:244702.3' similar to gb:X68242 PUTATIVE HIV-1 INDUCED PROTEIN  
HIN-1 (HUMAN); mRNA sequence.  
ACCESSION N52529  
VERSION N52529.1 GI:1193695  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 27)



QY 5188 AACAAAAA.....AAC 5212  
Db 1 AAAAAA.....AAC 25

RESULT 13  
BQ590537/c  
LOCUS  
DEFINITION BQ590537 29 bp mRNA linear EST 06-DEC-2002  
E012843-024-019-C03-T7 MP1Z-ADIS-024-storage root Beta vulgaris  
cDNA clone 024-019-C03 3-PRIME, mRNA sequence.

ACCESSION BQ590537  
VERSION BQ590537.1 GI:26120120  
KEYWORDS EST.  
SOURCE Beta vulgaris  
ORGANISM Beta vulgaris  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
Caryophyllales; Amaranthaceae; Beta.

REFERENCE 1 (bases 1 to 29)  
AUTHORS Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,  
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.  
and Radelof,U.

TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide  
fingerprinting allows access to 25 000 potential sugar beet genes

JOURNAL Plant J. 32 (5), 845-857 (2002)  
MEDLINE 22362189  
PubMed 12472698

COMMENT Contact: Weisshaar B  
ADIS DNA core facility at MP1Z  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weisshaar@mpiz-koeln.mpg.de  
Insert Length: 29 Std Error: 0.00  
Plate: 19 row: C column: 03  
Seq primer: T7; GTAATACGACTCACTATAGGGC.

FEATURES  
source  
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/organism="Beta vulgaris"  
/mol\_type="mRNA"  
/cultivar="KWS2320 (double haploid, monogerm breeding  
line)"  
/db\_xref="GABI:189579"  
/db\_xref="taxon:161934"  
/clone="024-019-C03"  
/tissue\_type="storage root"  
/lab\_host="EMDH10B"  
/clone\_lib="MP1Z-ADIS-024-storage root"  
/note="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI;  
cDNA library from sugar beet, library provided by KWS  
Kleinwanzlebener Saatzucht AG Einbeck, Germany, contact:  
b.schulz@kws.de; cloning sites SalI-NotI, primer sites and  
orientation:  
SP6-SalI-CCACGGTCGC-5prime-cDNA-polyA-CC-NotI-T7; Note:  
Sequencing granted in the context of the GABI-Best  
project, local PI: Dr. Katharina Schneider, coordinator:  
Prof. Christian Jung; Sequence submission managed by  
RZPD/GABI-Primary database: http://gabi.rzpd.de"

ORIGIN  
Query Match 0.4%; Score 23.4; DB 13; Length 29;  
Best Local Similarity 96.0%; Pred. No. 2.3e+07;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5187 CAACAAAAA.....AAAAA 5211  
Db 28 CAAAAA.....AAAAA 4

RESULT 14  
CA853764/c  
LOCUS

DEFINITION B12A03.seq cDNA Peking library 12hr SCN3 Glycine max cDNA clone  
B12A03 5', mRNA sequence.

ACCESSION CA853764  
VERSION CA853764.1 GI:33390569  
KEYWORDS EST.  
SOURCE Glycine max (soybean)  
ORGANISM Glycine max  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;  
Glycine.

REFERENCE 1 (bases 1 to 24)  
AUTHORS Alkharouf,N.W., Khan,R. and Matthews,B.F.  
TITLE Analysis of expressed sequence tags from roots of resistant soybean  
infected by the soybean cyst nematode

JOURNAL Unpublished (2002)  
COMMENT Contact: Alkharouf, N.W.  
Soybean Genomics and Improvement Laboratory (SGIL)  
US Department of Agriculture (USDA), ARS, PSI  
Bldg.006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,  
USA  
Tel: 301 504 5750  
Fax: 301 504 5728  
Email: alkharouf@ba.ars.usda.gov.

FEATURES  
source  
1..24  
/organism="Glycine max"  
/mol\_type="mRNA"  
/cultivar="Peking"  
/db\_xref="taxon:3847"  
/clone="B12A03"  
/tissue\_type="Roots"  
/dev\_stage="Seedlings"  
/clone\_lib="cDNA Peking library 12hr SCN3"  
/note="Vector: pBluescript SK-; cDNA clones from mRNA  
extracted from roots of soybean cv. Peking 12 hrs after  
infection by SCN race 3. These are cloned in pBluescript  
SK- phagemid."

ORIGIN  
Query Match 0.4%; Score 23; DB 14; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+07;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5191 AAAAAA.....AAC 5213  
Db 23 AAAAAA.....AAC 1

RESULT 15  
CF312319/c  
LOCUS  
DEFINITION CF312319 24 bp mRNA linear EST 15-AUG-2003  
ABF--07-PI2.g1 ABF3-overexpressing transgenic rice plasmid cDNA  
library (ABF) Oryza sativa cDNA clone ABF--07-PI2, mRNA sequence.

ACCESSION CF312319  
VERSION CF312319.1 GI:33684080  
KEYWORDS EST.  
SOURCE Oryza sativa  
ORGANISM Oryza sativa  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
Ehrhartioideae; Oryzaceae; Oryza.

REFERENCE 1 (bases 1 to 24)  
AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,  
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.  
TITLE Large-scale Sequencing Analysis of Rice ESTs  
JOURNAL Unpublished (2003)  
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FEATURES

Source

Location/Qualifiers

1. .24

/organism="Oryza sativa"

/mol type="mRNA"

/cultivar="Nackdong"

/db\_xref="taxon:4530"

/clone="ABF--07-F12"

/tissue type="leaf"

/dev\_stage="14 days after germination"

/lab\_host="E.coli DH10B"

/clone\_lib="ABF3-overexpressing transgenic rice plasmid

CDNA library (ABF)"

/note="Vector: PCR4-TOPO; Site\_1: EcoRI; Leaf was dried

for 2hrs. Oligo-capped mRNA was reverse transcribed and

then used for PCR. mRNA was prepared from ABA-responsive

element binding transcription factor 3 overexpression

line."

ORIGIN

Query Match 0.4%; Score 23; DB 14; Length 24;

Best Local Similarity 100.0%; Pred. No. 2.8e+07;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

\* Qy 5191 AAAAAAAAAAAAAAAAAAAACC 5213

Db 23 AAAAAAAAAAAAAAAAAAAACC 1

\* Search completed: September 16, 2004, 01:40:37

Job time : 12085 secs